

## **DETAILED ACTION**

### **Information Disclosure Statement**

The information disclosure statement (IDS) submitted on 12/7/05 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

### **Examiners's Amendment**

An examiner's amendment on the record appears below. Should changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Bill Cassin on July 23<sup>rd</sup>, 2008. The application has been amended as Follows:

Claims 23, 25-28 and 30-36 are directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(b), claims 15-18, directed to the process of making or using an allowable product, previously withdrawn from consideration as a result of a restriction requirement are hereby rejoined and fully examined for patentability under 37 CFR 1.104. Because all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement as set forth in the Office action mailed on December 1<sup>st</sup>, 2006 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

#### **IN THE CLAIMS**

Art Unit: 1795

15. (Currently Amended) A method of insert molding a battery bolt comprising:  
providing a battery bolt having a first portion and a sealing portion, wherein said first portion comprises a head portion integrally connected to a washer portion, wherein said washer portion includes radial projections extending there from, and wherein the said  
sealing portion is tapered;  
placing said first portion in a mold cavity; substantially sealing a portion of the mold cavity with said sealing portion; and  
injecting lead into said mold cavity to form a lead subassembly in which said first portion is encased in said lead, wherein said lead is substantially retained in said mold cavity in part by said sealing portion.

16. (Currently Amended) The method of claim 15, wherein said first portion comprises a shank portion integrally connected to and disposed between both of said washer portion and said sealing portion ~~first portion is a head portion.~~

### REASONS FOR ALLOWANCE

Claims 15-18, 23, 25-28 and 30-36 are allowed.

Art Unit: 1795

The prior art does not teach or suggest a battery terminal including all of the claimed features. The most pertinent art includes Ratte et al. (U.S. Patent No. 6,902,095 B2) and Williamson et al. (U.S. Patent No. 5,533,764) and further in view of Whitney (U.S. Patent No. 2,353,531). Ratte et al discloses a method of cold forming a two-part battery terminal and a two-part cold formed battery terminal comprising a cold formed lead or lead alloy slug having a male fastener protruding from one side of the cold formed slug with a head portion "first portion" of the fastener rotationally retained and embedded in the battery terminal by cold formed lead or lead alloy around the end face of the fastener (Col 1 lines 45-51) (See Fig. 5). However, the disclosure of Ratte et al. as modified by Williamson et al. and Whitney do not teach or suggest

23. (Currently Amended) A battery terminal, said battery terminal comprising:

a bolt, wherein said bolt comprises in order

a first portion, wherein said first portion comprises a head portion integrally connected to a washer portion, wherein said washer portion includes radial projections extending there from.

a sealing portion connected to said first portion, and

a threaded portion connected to said sealing portion; and

a lead portion, wherein said lead portion is a lead casting, insert molded as molten lead around said first portion, said sealing portion preventing leakage of said molten

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metal from an insert mold cavity onto said threaded portion during said insert molding process.

(Examiner notes that the prior art do not teach or suggest an insert molded washer).

The prior art does not teach or suggest a method of insert molding battery bolt including all of the claimed features. The most pertinent art includes Ratte et al. (U.S. Patent No. 6,902,095 B2) and Williamson et al. (U.S. Patent No. 5,533,764) and further in view of Whitney (U.S. Patent No. 2,353,531). Ratte et al discloses a method of cold forming a two-part battery terminal and a two-part cold formed battery terminal comprising a cold formed lead or lead alloy slug having a male fastener protruding from one side of the cold formed slug with a head portion "first portion" of the fastener rotationally retained and embedded in the battery terminal by cold formed lead or lead alloy around the end face of the fastener (Col 1 lines 45-51) (See Fig. 5). However, the disclosure of Ratte et al. as modified by Williamson et al. and Whitney do not teach or suggest

15. (Currently Amended) A method of insert molding a battery bolt comprising:  
providing a battery bolt having a first portion and a sealing portion, wherein said first portion comprises a head portion integrally connected to a washer portion, wherein said washer portion includes radial projections extending there from, and wherein the said  
sealing portion is tapered;  
placing said first portion in a mold cavity; substantially sealing a portion of the mold cavity with said sealing portion; and

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injecting lead into said mold cavity to form a lead subassembly in which said first portion is encased in said lead, wherein said lead is substantially retained in said mold cavity in part by said sealing portion.

(Examiner notes that the prior art do not teach or suggest an insert molded washer).

For these reasons, the claims are allowed over the prior art. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ben Lewis whose telephone number is 571-272-6481. The examiner can normally be reached on 8:30am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Ben Lewis/

Examiner, Art Unit 1795

/PATRICK RYAN/

Supervisory Patent Examiner, Art Unit 1795